



ARCADIS of New York, Inc. 6723 Towpath Road P O Box 66 Syracuse New York 13214-0066

Tel 315 446 9120

Fax 315 449 0017

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From:

To:
Keith M. Krawczyk
Project Coordinator
MDEQ – Remediation Division
Superfund Section
Constitution Hall
P.O. Box 30426
Lansing, MI 48909-7926

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Copies:
Garry Griffith, P.E., Georgia-Pacific LLC (transmitted via e-mail)
Michael Berkoff, USEPA Region 5
Steve Taplin, Terra Contracting, LLC (transmitted via e-mail)
Dawn Penniman, P.E., ARCADIS

Date:

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Pat M. McG	uire	September 18, 2012			
	ay Landfill OU – 2012 3 rd dfill Inspection Report	ARCADIS Project No.: B0064583.0003.00907			
We are sendin	ng you:				
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r Pat.M	cGuire@arcadis-us	com i	f you have any	questions.				
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KING HIGHWAY LANDFILL POST-REMEDIATION INSPECTION FORM

nspection Date:	9/7/2012		Weather Conditions:	Sunny, 70's, light wind				
nspectors:	M. Kohag	en						
ime Arrived:	12:00	(AM PM)	Time Departed:	16:00	(AM(PM)			

Inspection Items	Cond		Response	Comments/Proposed Action Items	Photo Nos.
items	Yes	No			1103.
Cover System					
Settlement	x		Strip the soil, place and compact suitable soils within the depression, and replace excavated soil. Once the proper slope is restored, reseed the disturbed area	The area of settlement identifed during the 2nd quarter landfill inspection, south of the diversion berm, has been repaired through the removal of the existing final cover soil material, repair of the breaches in the geomembrane liner, and the application of a 2-foot layer of general fill and a 6-inch layer of topsoil as identified in the June 27, 2012 Stressed Vegetation Sampling Results and Work Plan.	1
Water Ponding	x		Strip the soil, place and compact suitable soils within the depression, and replace excavated soil. Once the proper slope is restored, reseed the disturbed area	During the week of August 27, 2012 the low area in the drainage swale located along the north access road were water ponding was previously observed was repaired. Topsoil was placed in this low area, the area regraded to eliminate future ponding, and seed and mulch applied to the topsoil to facilitate vegetative growith.	3
Soil Erosion	×		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth		
Slope Movement/ Failure	×		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth		
Exposed FML	×		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth		
Undesirable Growth (Rooty Trees or Shrubs)	x		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth		
Protruding Objects	×		Regrade or place additional appropriate materials in affected areas and promptly reseed to establish vegetative growth		
Burrowing Animals		х	Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth	One burrowing animal hole was identified on the north side of the landfill along the sheetpile wall. The hole was filled in with topsoil and will be monitored.	
Cracks	×		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth		
Disturbance or Loss of Vegetation	x		Reseed areas of lost vegetation. Do not allow vegetation (except for grasses) to establish on the cover	Four areas identified as having stressed vegetation were reworked during the week of August 27, 2012. Additional topsoil, seed, and mulch were added to these areas to facilitate vegetative growth in accordance with the June 27, 2012 Stressed Vegetation Sampling Results and Work Plan. The areas will be monitored for vegetative growth.	2
Sedimentation Bas	sin and D	rainage	Qutlet		
Erosion	×		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth		
Siltation	X		Remove excessive sediment buildup that has caused filling of the basin bottom to elevations above the design elevation (e.g., design elevation near outlet structure is 764.5 feet)		
Debris Buildup	Х		Remove debris washed out materials		
Condition of Discharge Structures & Inlets	x		Remove any debris or obstructions/ blockages. Indicate corrective measures for damaged inlet or discharge structures		
Inappropriate Vegetation	x		Only grass will be allowed to establish on the cover. Roots of trees and shrubs will be cut out. Inspect the area every 2 weeks following removal to ensure that root systems have not returned		
Ditches and Divers	sion Bern	ns			
Siltation	х		Remove excessive sediment buildup		

KING HIGHWAY LANDFILL POST-REMEDIATION INSPECTION FORM

Inspection Items	Condi		Response	Comments/Proposed Action Items	Photo Nos.
	Yes	No	TAX CONTRACTOR OF THE SECOND		
Debris Buildup	Х		Remove debris washed out materials	公司和 的证据,从中国国际的	
Disturbed Vegetation	х		Reseed areas of lost vegetation	During the week of August 27, 2012, four areas of stressed vegetation were reworked, had a layer of topsoil applied to the areas, and were seeded and mulched to facilitate vegetative growth.	3
Erosion	х		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth		
Culverts					
Siltation	Х		Remove excessive sediment buildup		
Clogging	X		Remove any debris or obstructions/ blockages obstructing flow through the culvert		
Riprap, Sheet pile	Wall, and	Erosio	n Control Blankets		5.20
Instability or Damage	х		Regrade or place additional appropriate materials (e.g., riprap, topsoil) in affected areas and promptly reseed where necessary to establish vegetative growth. Replace erosion control blankets if damaged. Note damage to sheet pile wall		
Sheetpile Wall	SA CONTRACTOR	No. of Concession, Name of Street, or other teams of the Concession, Name of Street, or other te			
Soil Erosion, Subsidence, or Cracking Behind Wall	х		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth		
Wall Joints	Х		Note any gaps in the wall joints and any material migration from behind the wall	全建 的重要的 网络拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉拉	
Overall Wall Stability	х		Note whether the top of the wall has been displaced outward. Note any holes in the wall caused by corrosion		
Surface Water and	Pore Wa	ter Coll	ection System		
Clogging of Outlets	×		Remove any debris or obstructions/ blockages obstructing flow through the pipe	During the week of August 27, 2012, the south pore water outlet pipe was located through the use of hydro-excavation equipment; and the outlet pipe was extended to the western riprap apron. The south pore water outlet pipe will continued to be monitored during future quarterly landfill inspections.	4
Evidence of Settlement/ Exposed Materials	х		Regrade or place additional appropriate materials in the affected areas and promptly reseed to establish vegetative growth		
Condition of Inlet/Outlets	Х		Replace or repair pipes that have been damaged such that flow is obstructed		
Landfill Gas Mana	gement S	ystem			
Condition of Exterior Vent Pipe Components	х		Replace broken/damage vent pipes. Exposure of geomembrane pipe boot above the ground surface should be noted, as well as any damage to the pipe boot		
Condition of Exterior Gas Probe Components	х		Replace broken/damage gas probes or components		
Evidence of Differential Settlement ¹	х		Replace vent pipes or gas probes with severe leans or where underground components are observed above ground		
Operation of Wind Turbine Ventilators	х		Repair or replace wind turbine ventilators that are not turning or have been broken/damaged		
Groundwater Mon	itoring Sy	stem			
Condition of Surface Seal and Pipe Boot	x		Replace or repair the concrete surface seal as necessary. Exposure of geomembrane pipe boot above the ground surface should be noted, as well as any damage to the pipe boot		
Condition of Protective Casing	×		Replace damaged protective casings		
Condition of Cap	х		Replace damaged caps		

KING HIGHWAY LANDFILL POST-REMEDIATION INSPECTION FORM

Inspection Items	Condition Satisfactory		Response	Comments/Proposed Action Items		
	Yes	No				
Condition of Locks	Х		Replace locks where missing or damaged			
Integrity of Exterior Well Components	х		Replace broken/damaged monitoring wells			
Site Access Roads			(1) 对图 (2) 的图 (2) 是 对图 (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			
Condition of Roadways	x		Regrade or place additional appropriate materials (e.g., gravel) in depressions to maintain proper drainage and even roadway surface			
Conditions of Access Gates	x		Replace or repair damaged gates. Reattach mesh fencing that has pulled away from the top rail			
Security Systems						
Condition of Fencing		x	Replace or repair damaged fencing. Removed trees or branches that have fallen onto fencing. Clear vegetation away from fencing. Reattach mesh fencing that has pulled away from the top rail	Barbwire fence was observed to be missing from an approximate 20 foot section of the perimeter fence in the northwest corner of the landfill. The barbed wire was removed during work associated the City sanitary project. The fence will be repaired and a gate installed once the City sanitary project is completed in 2012. Additionally, vegetative growth along the feneline will be cleared in the coming months.		
Condition of Signs	Х		Replace or repair missing or damaged signs to eliminate trespassing			
Condition of Locks	X		Replace missing or damaged locks			

Notes:

1. Evidence of differential settlement includes heaving around vent pipes and/or gas monitoring probes, leaning vent pipes and/or gas monitoring probes, and underground components of vent pipes and/or gas probes exposed above ground surface.

Additional Remarks:		
Several of the areas identified as having stressed vegetation last quarter were green	with vegetation this inspection.	
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Photo No. 1: Looking north at the patch being extrusion welded to the existing liner to repair the breaches in the liner.



Photo No. 2: Looking east at Terra Contracting, LLC (Terra) preparing the area of stressed vegetation for re-seeding.

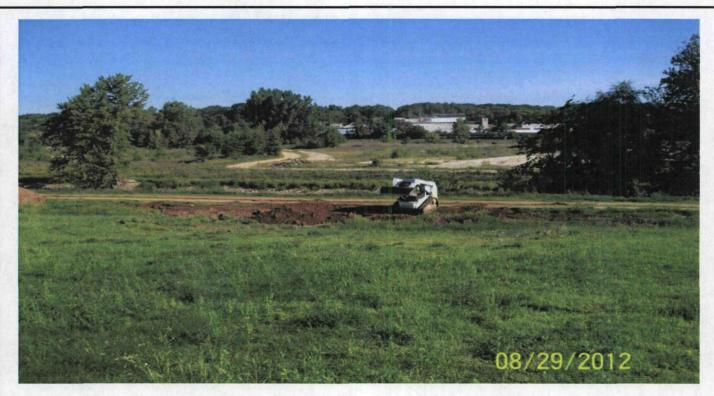


Photo No. 3: Looking north at Terra preparing the low-spot in the drainage swale for seed and mulch by placing additional topsoil in the area.



Photo No. 4: Looking east at the southern pore water outlet pipe that has been extended into the riprap spillway.

